

REL-IR-BL/L- 24DC/2X21 - Single relay



1032526

<https://www.phoenixcontact.com/us/products/1032526>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V DC

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1032526 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CK6193 |
| GTIN | 4055626536071 |
| Weight per piece (including packing) | 30.176 g |
| Weight per piece (excluding packing) | 30.176 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |

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Technical data

Notes

| | |
|---------|--|
| General | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
| General | The outputs are not suitable for switching different outer conductors. |
| General | Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed. |

Product properties

| | |
|-------------------------|---------------------------|
| Product type | Single relay |
| Operating mode | 100% operating factor |
| Mechanical service life | 3x 10 ⁷ cycles |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics: Air clearances and creepage distances between coil and contact side

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|--|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 759 mW |
| Test voltage (Winding/contact) | 2.5 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage (Changeover contact/changeover contact) | 2.5 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact) |

Air clearances and creepage distances between coil and contact side

| | |
|--------------------------|----------|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 5 kV |

Input data

Coil side

| | |
|---|---------------------------------|
| Nominal input voltage U _N | 24 V DC |
| Input voltage range | 19.2 V DC ... 40.8 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 32 mA |
| Typical response time | 15 ms |
| Typical release time | 10 ms |
| Coil voltage | 24 V DC |
| Status display | Yellow LED (bidirectional) |

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Output data

Switching

| | |
|---------------------------------------|----------------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V (10 mA) |
| Limiting continuous current | 12 A |
| Maximum inrush current | 24 A (20 ms, N/O contacts) |
| Min. switching current | 10 mA (12 V) |
| Interrupting rating (ohmic load) max. | 288 W (24 V DC) |
| | 130 W (48 V DC) |
| | 90 W (60 V DC) |
| | 66 W (110 V DC) |
| | 88 W (220 V DC) |
| | 3000 VA (250 V AC) |
| Switching capacity min. | 120 mW |

Connection data

| | |
|-------------------|--------------------|
| Connection method | Plug-in connection |
|-------------------|--------------------|

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 28 mm |
| Depth | 35.5 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--------------------------------|
| Degree of protection | RT II |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Altitude | ≤ 2000 m |

Standards and regulations

Air clearances and creepage distances between coil and contact side

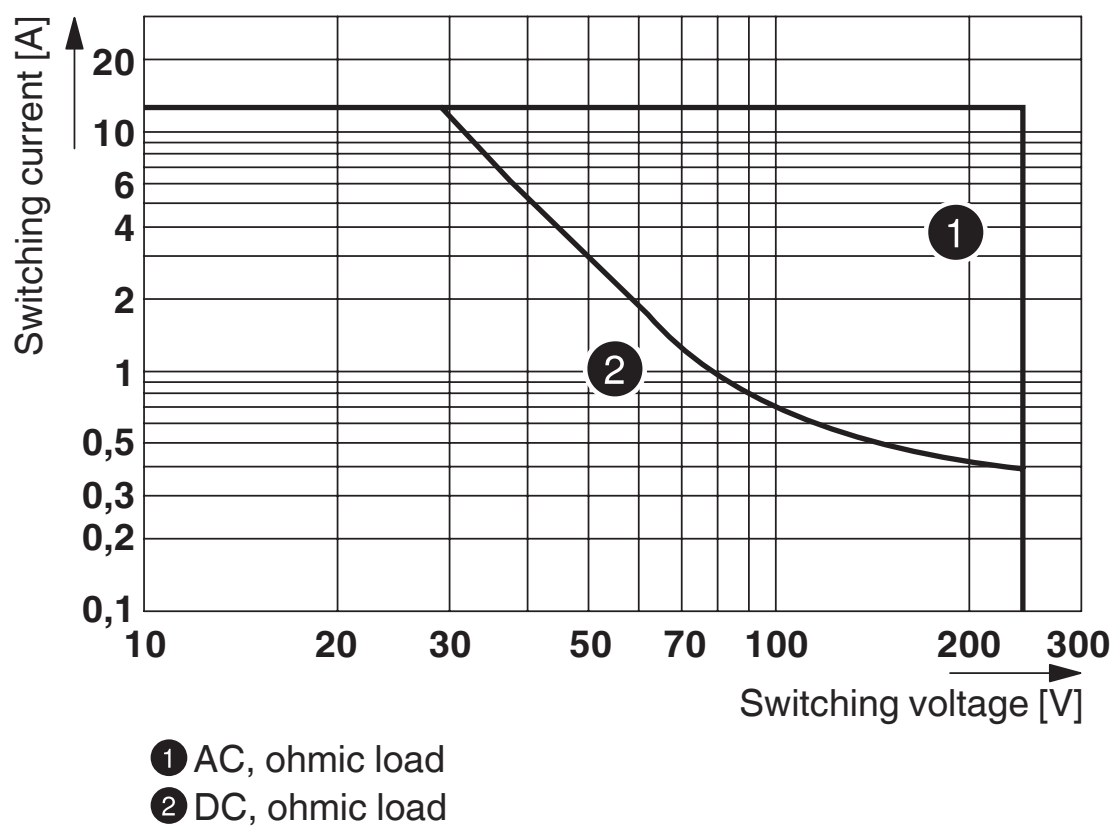
| | |
|-----------------------|------------|
| Standards/regulations | EN 61810-1 |
|-----------------------|------------|

Mounting

| | |
|-----------------------|---------------------------|
| Mounting type | Plug-in mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

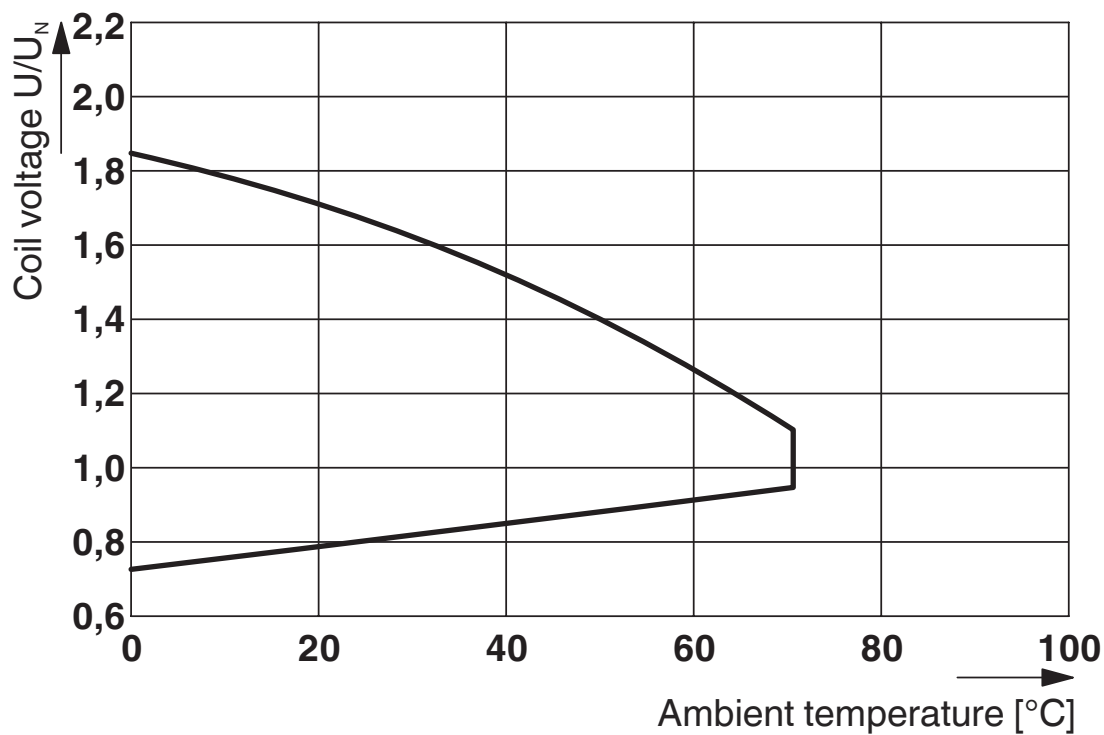
Drawings

Diagram



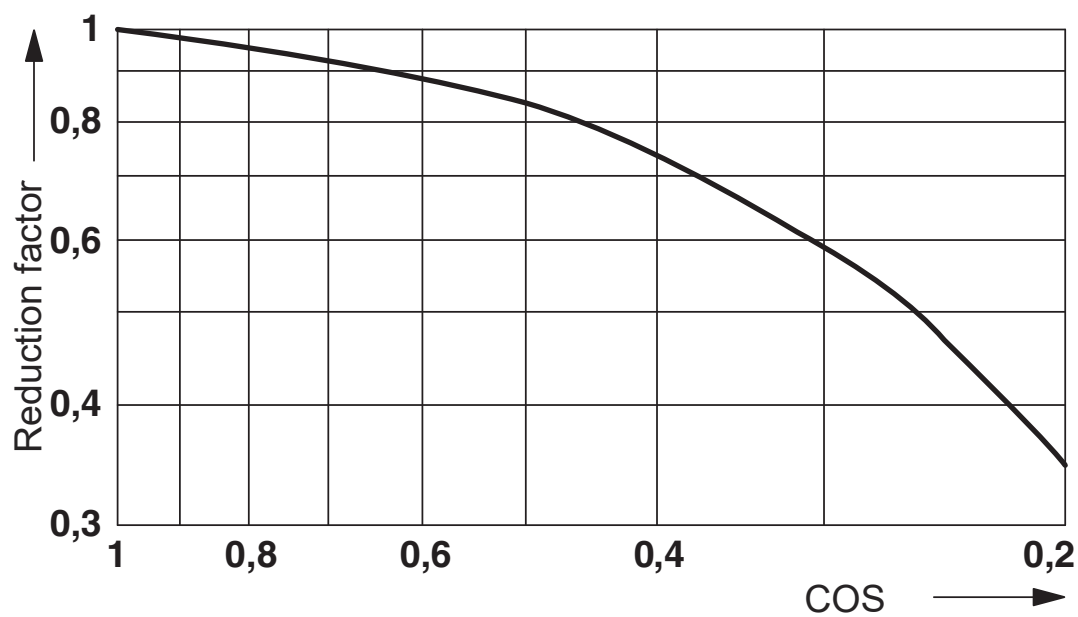
Interrupting rating

Diagram



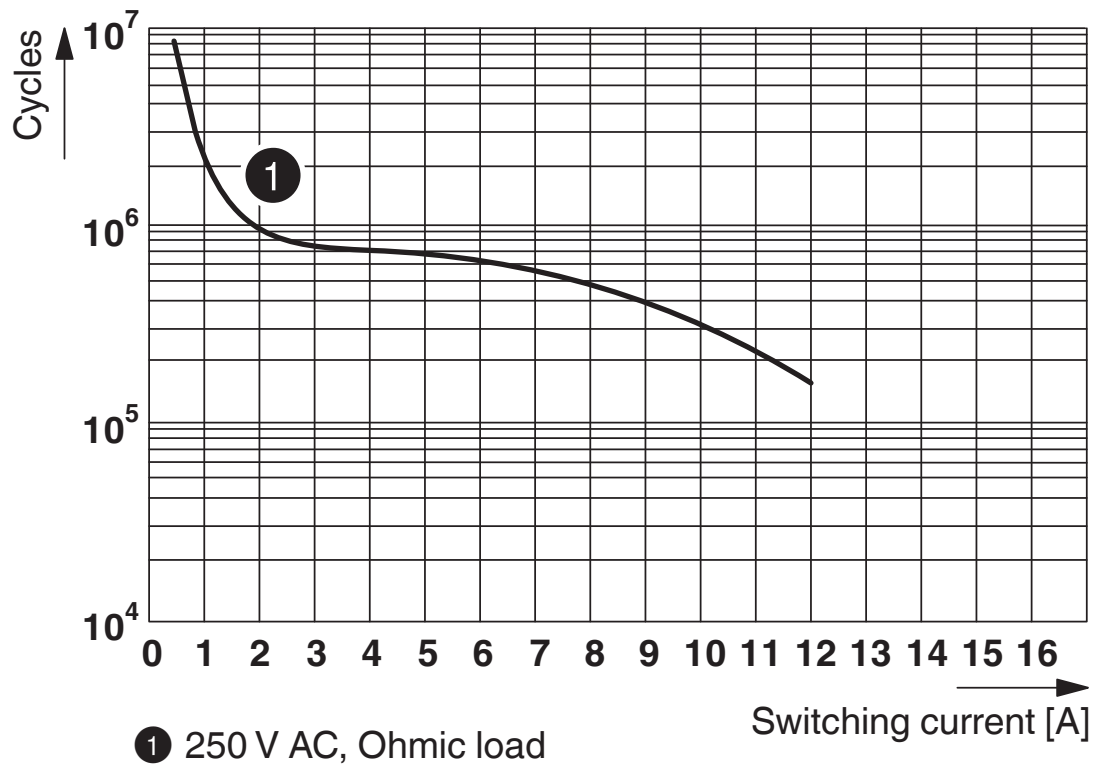
Operating voltage range

Diagram



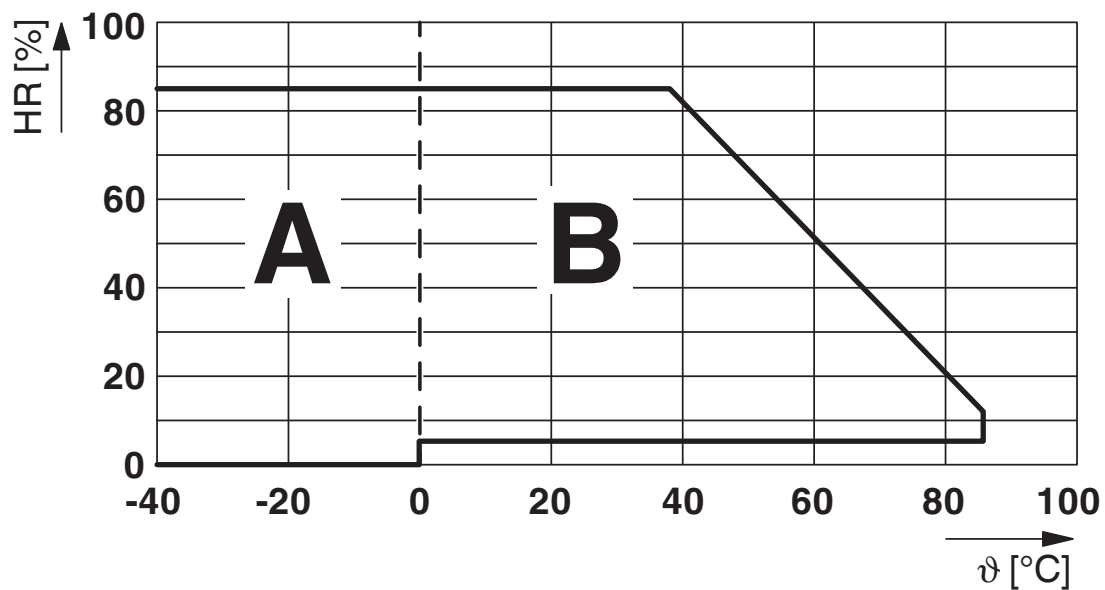
Service life reduction factor

Diagram



Electrical service life

Diagram



Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^\circ\text{C}$ must be preventedArea B: Condensation at ambient temperatures $> 0^\circ\text{C}$ must be preventedOn 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.


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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1032526>



cUL Recognized
Approval ID: FILE E 228652



UL Recognized
Approval ID: FILE E 228652



EAC
Approval ID: TR_TS_D_00573_c

cULus Recognized

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Mandatory accessories

ECOR-2-BSC2-RT/2X21 - Relay base

2908341

<https://www.phoenixcontact.com/us/products/2908341>

ECOR-2 relay base, for industrial relays with two changeover contacts, bolt connection, for mounting on NS 35/7,5



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